CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.11/GR/STEEL/2014-15 15.07.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Gopi Reddy**, Contractor, Bangalore.
Name of the work	:	Maintenance of Ward and emergency works in Ward No.11, Kuvempu Nagara, BBMP, Bangalore.
Reference	:	AEE/VP/43/2014-15 Dated: 14.07.2014
Date of Test	:	15.07.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.40	O.K	O.K

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.11/GR/CEMENT/2014-15

Date: 15.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Gopi Reddy**, Contractor, Bangalore.
NAME OF THE WORK	:	Maintenance of Ward and emergency works in Ward No.11, Kuvempu Nagara, BBMP, Bangalore.
REFERENCE	:	AEE/VP/43/2014-15 Dated: 14.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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Accepted on 16/7/14

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Job No.: CTCE/BBMP/W.No.11/GR/SAND/2014-15 : 15.07.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Gopi Reddy,** Contractor, Bangalore.

Name of Work : Maintenance of Ward and emergency works in Ward No.11, Kuvempu Nagara, BBMP, Bangalore.

Reference : AEE/VP/43/2014-15 Dated: 14.07.2014

Date of Testing : 15.07.2014

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	96	4.80	4.80	95.2	90-100
2.36	223	11.15	15.95	84.1	75-100
1.18	514	25.70	41.65	58.4	55-90
600 Micron	422	21.10	62.75	37.3	35-59
300 Micron	493	24.65	87.40	12.6	8-30
150 Micron	203	10.15	97.55	2.4	0-10

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15/7/14
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Job No.: CTCE/BBMP/W.No.11/GR/AGG/2014-15 : 15.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Gopi Reddy,** Contractor, Bangalore.

Name of Work : Maintenance of Ward and emergency works in Ward No.11, Kuvempu Nagara, BBMP, Bangalore.

Reference : AEE/VP/43/2014-15 Dated: 14.07.2014

Date of Testing : 15.07.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	182	3.6	3.6	96.4	95-100
10	3125	62.5	66.1	33.9	25-55
4.75	1476	29.5	95.7	4.3	0-10

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15/7/14

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.11/GR/CUBE/2014-15

26.07.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Gopi Reddy,** Contractor, Bangalore.
Name of the work	: Maintenance of Ward and emergency works in Ward No.11, Kuvempu Nagara, BBMP, Bangalore.
Reference	: AEE/VP/43/2014-15 Dated: 14.07.2014
Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.07.2014	26.07.2014	8.156	348.4	15.48
2	19.07.2014	26.07.2014	8.297	363.7	16.16
3	19.07.2014	26.07.2014	8.362	372.5	16.56

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